KV-1300E

Chassis No. SCC-22A-A SCC-22A-B

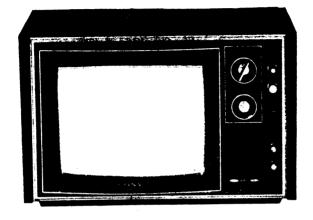
Up to 25,000

Serial No.

SCC-22A-C

C-22A-C 25,001 and later

This manual contains the



Supplement No. 1.

TRINITRON® COLOUR TV

SPECIFICATIONS

TV-signal standards:

CCIR system B and G

Picture tube:

13" 90° deflection TRINITRON

system (330 AB22)

Semiconductors:

79 transistors, 68 diodes, 2 ICs, 3 thermistors, 2 varistors and

1 posistor

Channel coverage:

VHF; ch. E2~E12 UHF: ch. E21~E68

Aerial system:

240-ohm aerial terminal type

IF circuit:

3 stages with 1 double tuned and

3 single tuned elements

Intermediate

Picture i-f carrier; 38.9 MHz

frequency:

Sound i-f carrier; 33.4 MHz

Video system:

Red, green and blue cathode

drive system

Sound system:

5,5 MHz intercerrier system

Power output; 1.2 watts (at 10% harmonic distortion)

Speaker; 8 x 12 cm, 8-ohm voice coil

Convergence

correction system:

Horizontal; electrostatic deflection

system

Vertical; magnetism correction system

of magnet

Power requirements: AC 220V 50 Hz

Power consumption: 78 watts

Anode voltage: 20 kV at zero beam current

Automatic controls: ACC (automatic color control)

ACK (automatic color killer)

ADG (automatic degaussing)
ABL (automatic brightness limiter)

ANC (automatic noise canceller)
AFC (automatic frequency control)
AFT (automatic fine tuning)

AFT (automatic fine tuning)
AGC (automatic gain control)
AVR (automatic voltage regulator)

AZC (automatic zooming control)

Dimensions: 474 mm(W) x 318 mm(H) x 394 mm(D)

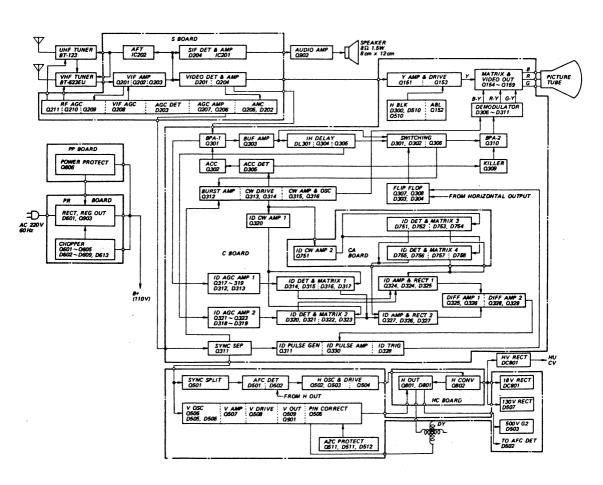
Weight: 14,1 kg

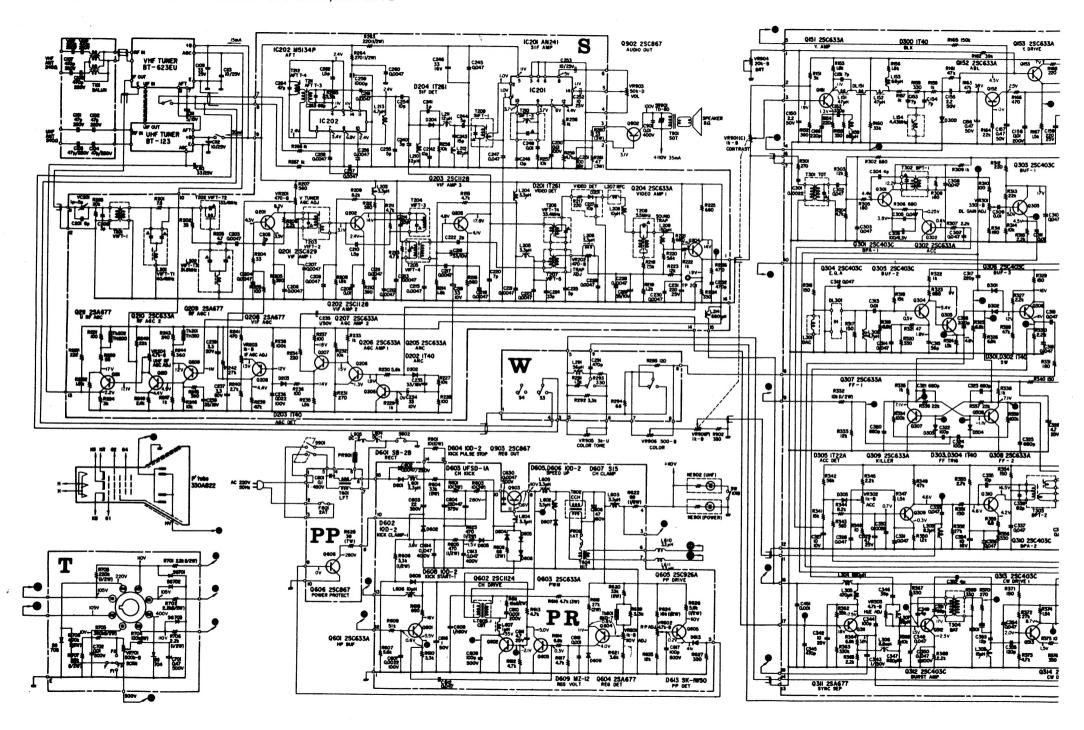
Accessories: Polishing cloth

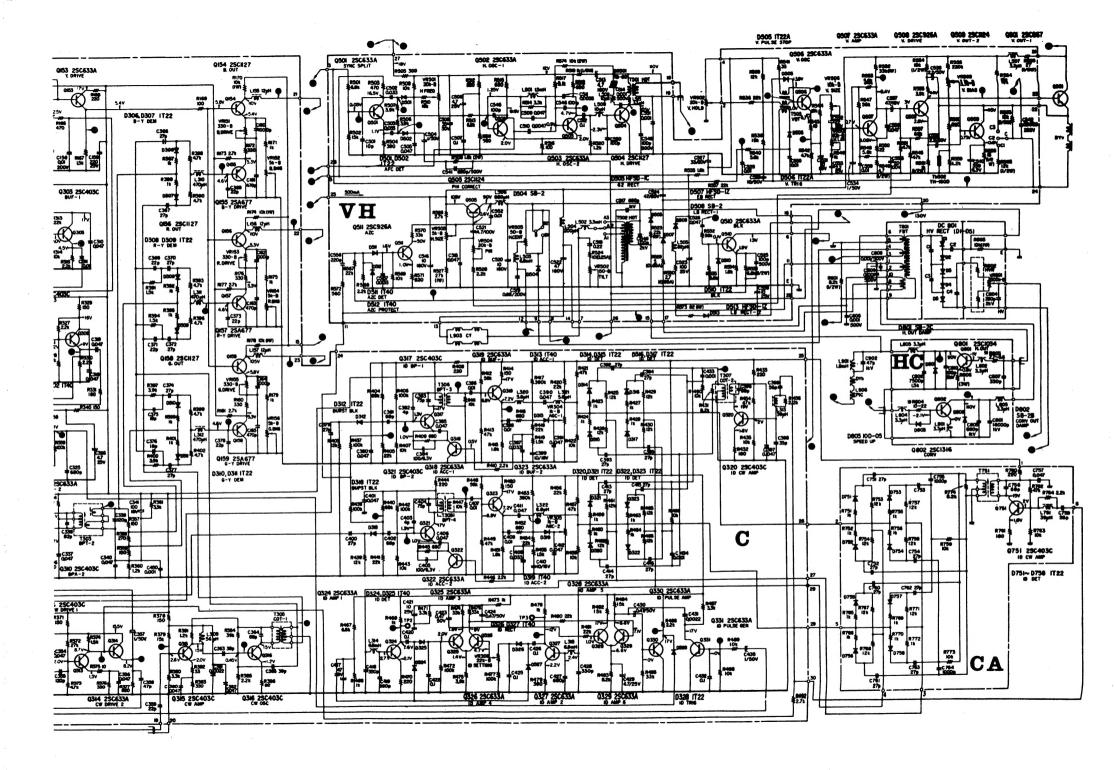
Instruction manual etc.

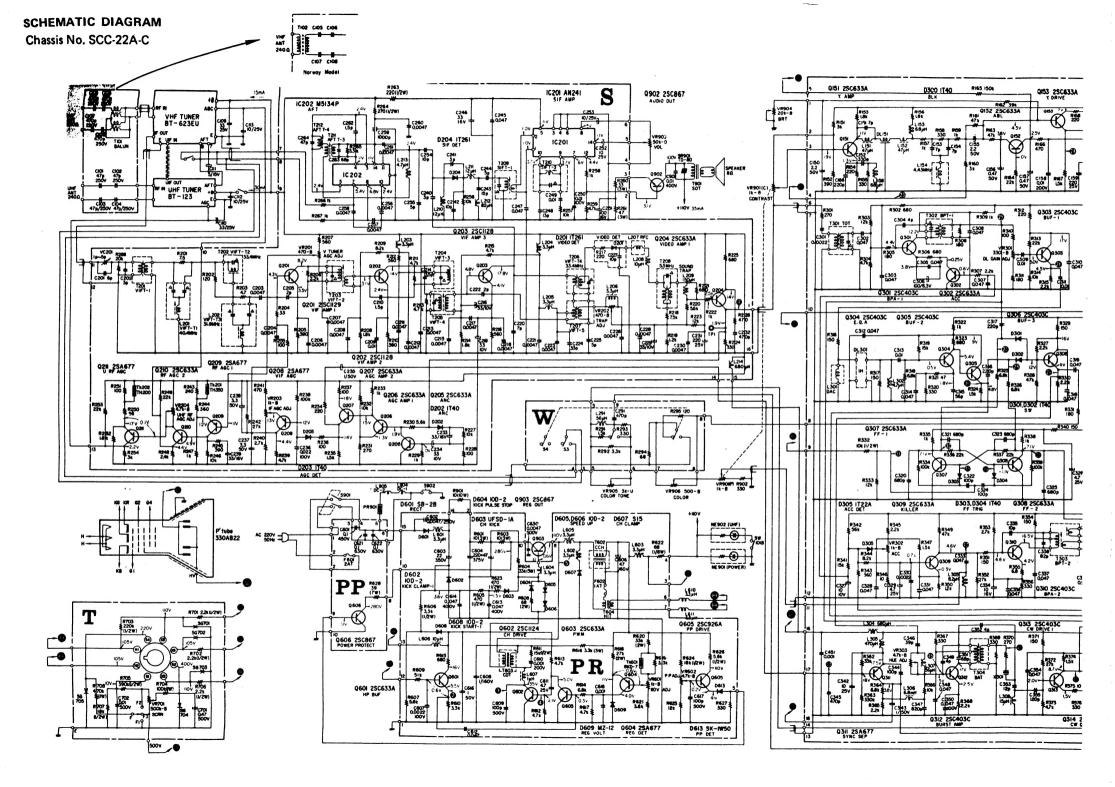
OUTLINE

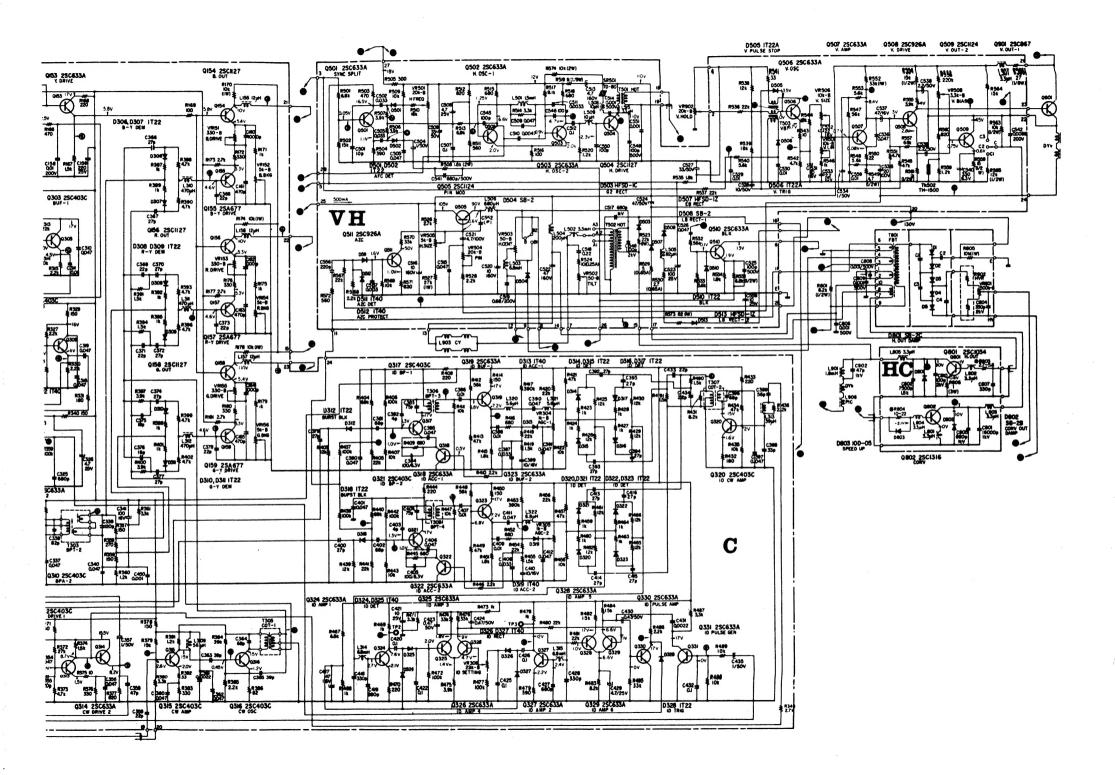
BLOCK DIAGRAM

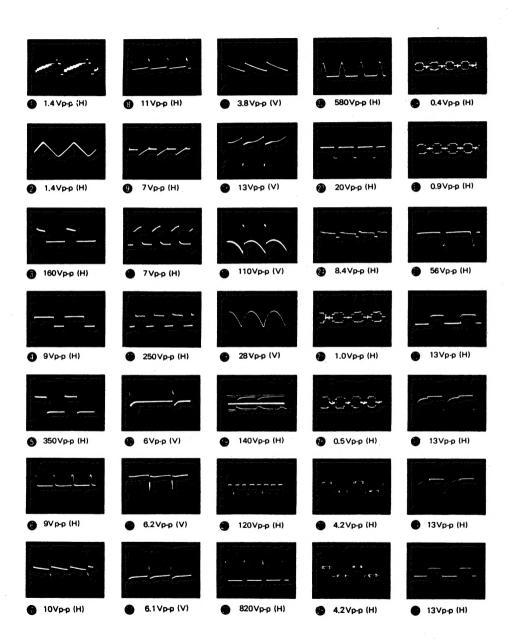


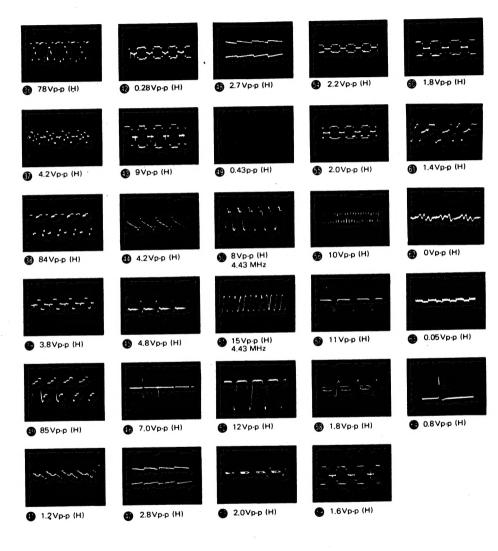




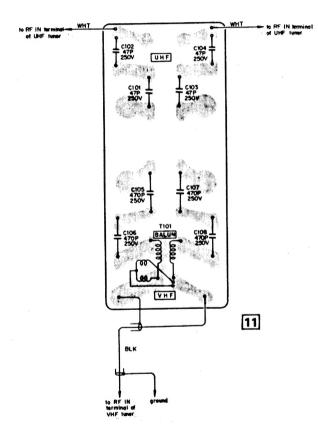




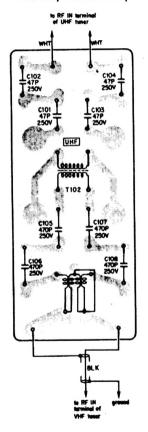




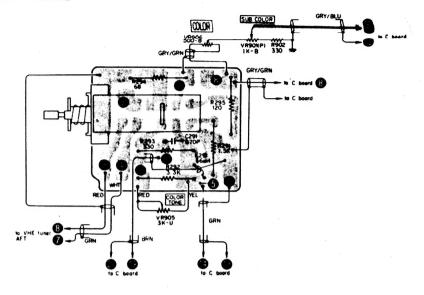
ANT CIRCUIT BOARD



- Norway model only -

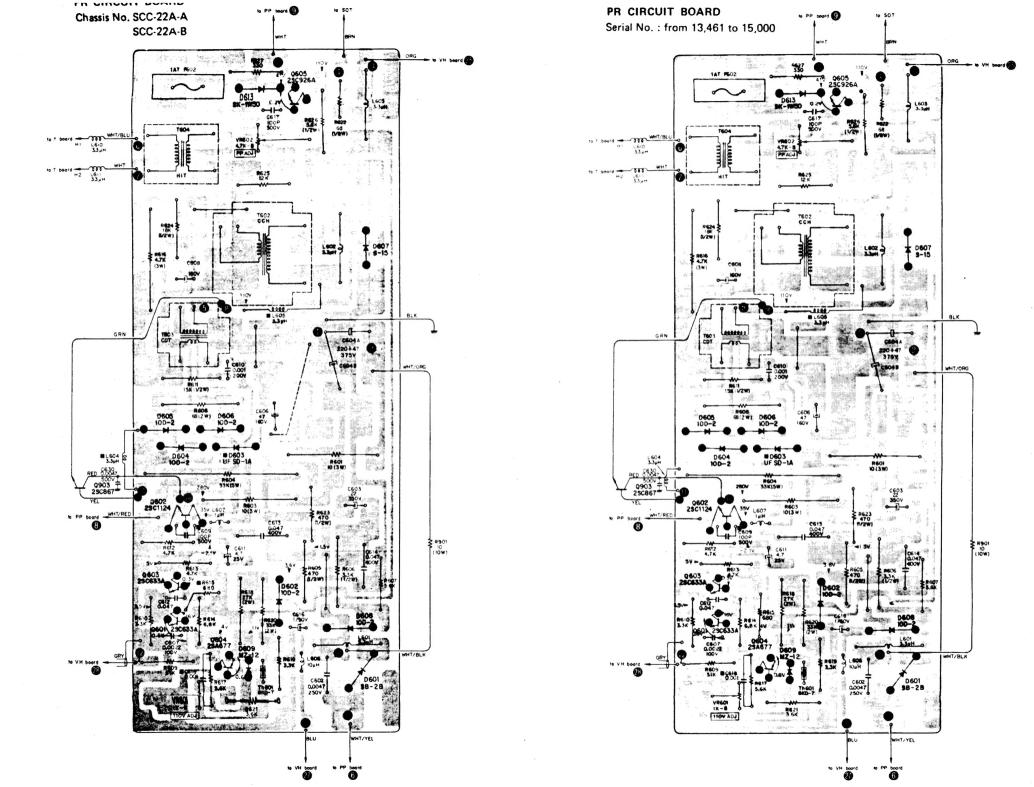


W CIRCUIT BOARD

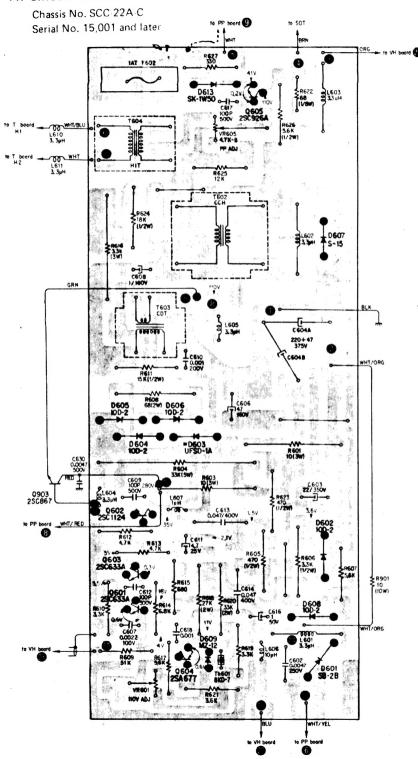


Note: 1. All capacitors are 50WV unless otherwise specified.

- 2. All resistors are ¼W unless otherwise specified.
- 3. All resistance values are in ohms. k = 1,000.
- 4. All capacitance values are in μ F except as indicated with p, which means $\mu\mu$ F.
- 5. Voltages measured from chassis to point indicated with a VOM (DC 20 k ohms/V) at color signal input.
- 6. The parts marked x indicates a component whose value is selected to yield specified operating condition.
- The blue circuled numbers (~ ⑤) refer to waveform on page 51 and 52.

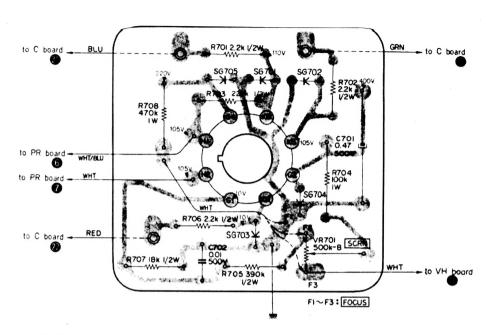


PR CIRCUIT BOARD



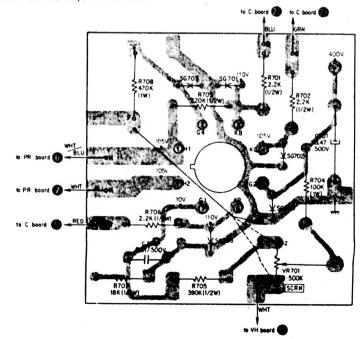
T CIRCUIT BOARD

Applicable serial No. up to 19,000



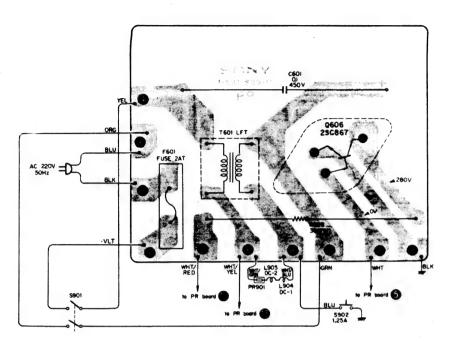
T CIRCUIT BOARD

Applicable serial No. 19,001 and later



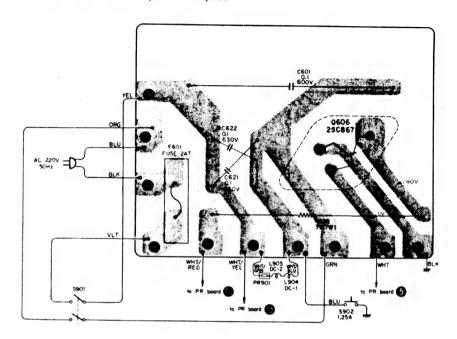
PP CIRCUIT BOARD

Serial No. Up to 14,000



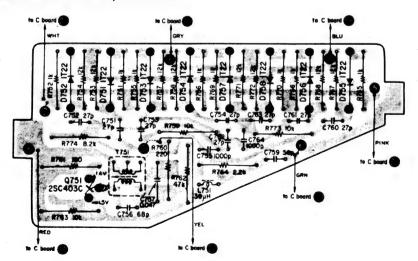
PP CIRCUIT BOARD

Serial No. : from 14,001 to 15,000



CA CIRCUIT BOARD

Chassis No. SCC-22A-A, SCC-22A-B



HC CIRCUIT BOARD HC CIRCUIT BOARD Chassis No. SCC-22A-A, SCC-22A-B Chassis No. SCC-22A-C to FBT WHT/RED WHT/RED to VH board b VH board Q802 2SC1316 Q802 2SC1316 110V GRY/ YEL -2.1V GRY/ YEL 16000P 1.0K 16000P ■D802 \$8-28 ■D802 \$8-28 ■L801 0 C805 680P 1KV C805 680P 1KV ■L801 S ₹ RB04 10~22 ■D803 10D-05 chassis ■D803 100-05 chassis RED RED RED ■ L805 3.3µH Q801 25C1034 ■C810 100P 2 KV 7500P 1.5KV 0.6V 7500P 1.5KV 100P 2 KV ■0 801 SB-2C ■D 801 SB -2C BLK chassis chassis

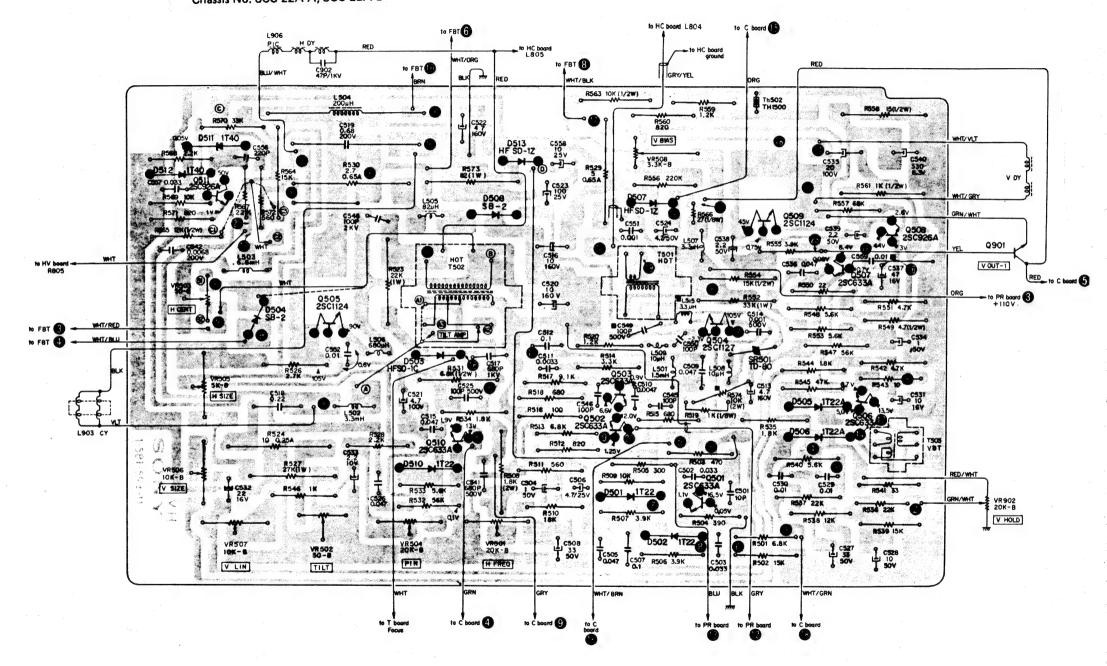
WHT/BLU

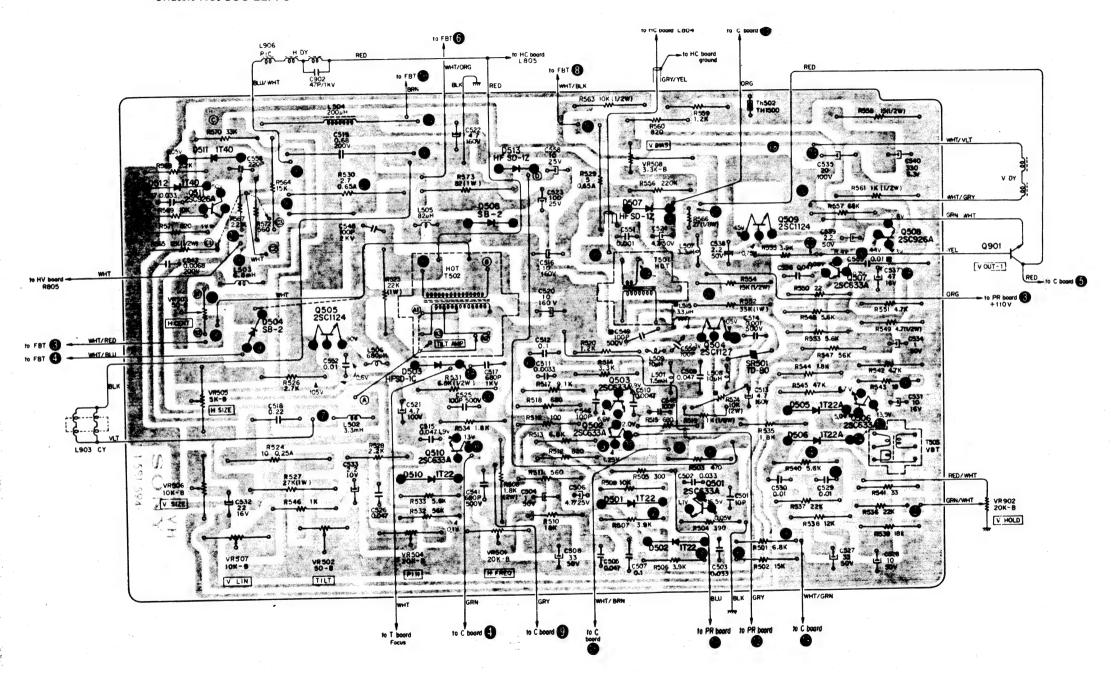
10 UHF tuner AGC

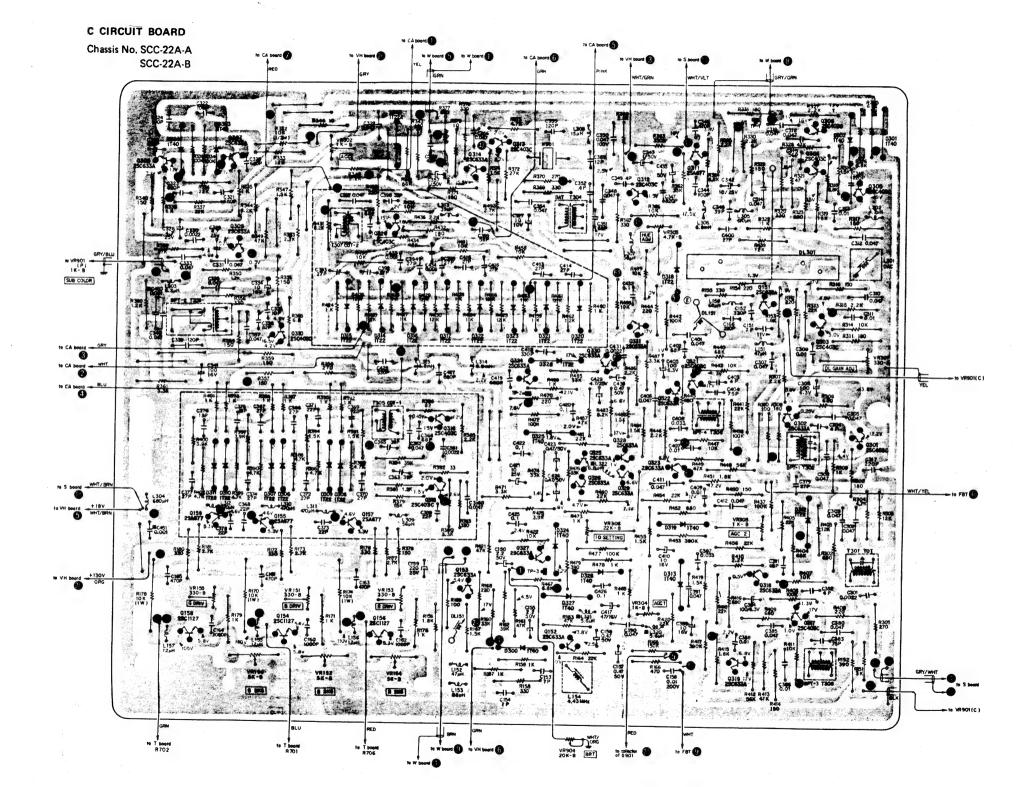
to VHF tuner AGC

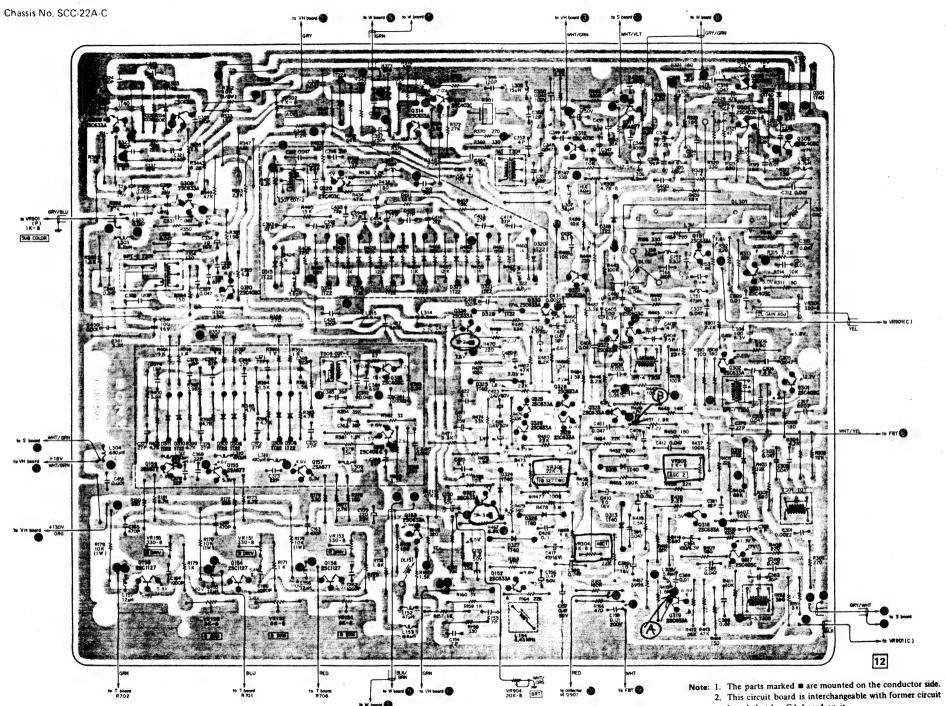
VH CIRCUIT BOARD

Chassis No. SCC-22A-A, SCC-22A-B

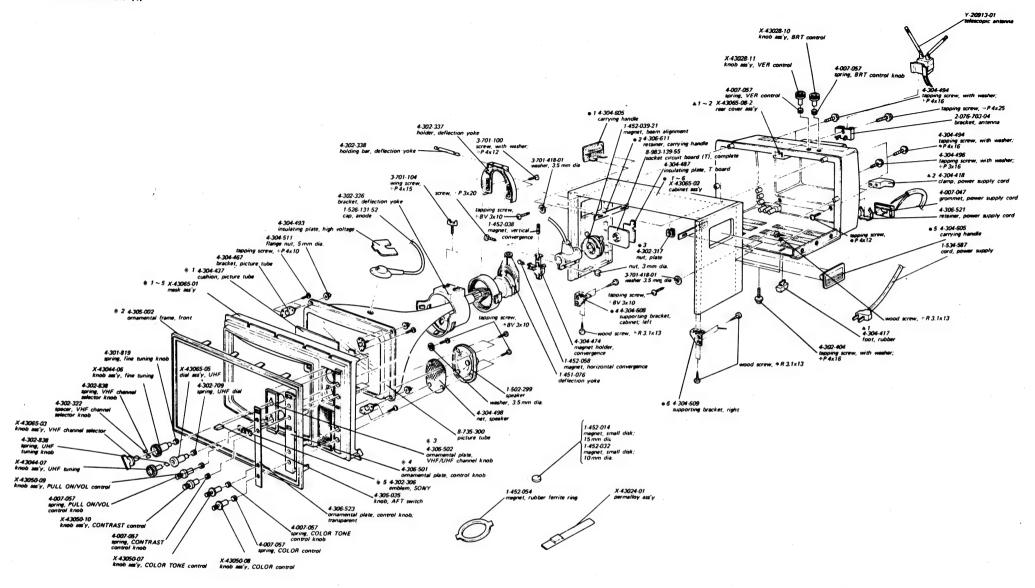








board that has CA board on it.



Note: \$ 1~5: X-43065-01 mask ass'y \$\Delta\$ 1~2: X-43065-08-2 rear cover ass'y

● 1 ~6: X-43065-02 cabinet ass'y

1-222-386 500Ω-B, COLOR control

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
-	TUNERS AND	CIRCUIT BOARDS	⇒Q302	8-729-663-47	2SC1364
			Q303-306	8-724-375-01	2SC403C
	1-581-599-11	PP Board (power protector), SCC-22A-A/B	⇒Q307-309	8-729-663-47	2SC1364
	1-581-599-12	PP Board (power protector), SCC-22A-C	Q310	8-724-375-01	2SC403C
	8-983-139-70	HC Board (horizontal converter), complate			
	8-983-139-15	C Board (chroma circuit), complete	. ⇒ Q311	8-729-612-77	2SA1027R
	8-983-139-25	S Board (signal circuit), complete	Q312, 313	8-724-375-01	2SC403C
			⇒Q314	8-729-663-47	2SC1364
	8-983-139-35	VH Board (vertical horizontal deflection),	Q315-317	8-724-375-01	2SC403C
		complete	⇒Q318, 319	8-729-663-47	2SC1364
	8-983-139-45	PR Board (power regulator), complete			
	8-983-139-55	T Board (socket circuit), complete	Q320, 321	8-724-375-01	2SC403C
	8-983-139-85	Transformer Ass'y, flyback (T801)	⇒Q322-331	8-729-668-47	2SC1364
	8-983-142-15	Antenna Terminal Board Ass'y	⇒ Q501-503	8-729-663-47	2SC1364
	including		Q504, 505	8-725-412-00	2SC1124
	1-536-358-0	0 (1-536-358 : Norway model)	⇒ Q506, 507	8-729-663-47	2SC1364
	1-417-033-0	0 Balun (T101)	⇒Q508	8-729-255-12	2SC2551
	1-508-492-0	O Antenna Socket, UHF	Q509	8-725-412-00	2SC1124
	1-508-493-0	0 Antenna Socket, VHF			
	3-705-455-0	0 Plate, antenna terminal	⇒Q510	8-729-663-47	2SC1364
	1-581-591-0	0 Antenna Board	→ Q511	8-729-255-12	2SC2551
	1-417-040-0	0 Transformer (T102): Norway model	⇒ Q601	8-729-663-47	2SC1364
			Q602	8-725-412-00	2SC1124
	8-983-142-25	UHF Tuner, BT-123	⇒ Q603	8-729-663-47	2SC1364
	8-983-142-35	W Board (switch circuit), complete			
	8-983-142-65	VHF Tuner, BT-623EU	⇒ Q604	8-729-612-77	2SA1027R
			⇒ Q605	8-729-255-12	2SC2551
	SEMICO	NDUCTORS	⇒ Q606	8-765-132-00	2SC867A
			⇒Q751	8-724-375-01	2SC403C
	Tren	nsistors	2		(Chassis No. SCC-22A-A/B)
			Q801	8-723-424-16	2SC1034
→ Q151-153		2SC1364			*******
⇒ Q154, 156, ⇒ Q158	8-729-322-78	2SC2278	Q802	8-728-693-00	2SC1316
· Q130			⇒ Q901-903	8-765-132-00	2SC867A
→ Q155, 157, → Q159	8-729-612-77	2SA1027R		D	iodes
Q201	8-725-923-00	2SC1129	D201	8-719-026-11	1T261
Q202, 203	8-725-800-00	2SC1128	⇒D201, 203	8-719-815-55	181555
⇒ Q204-207		2SC1364	D204	8-719-026-11	1T261
⇒ Q208, 209	8-729-612-77	2SA1027R	⇒D300 ×	8-719-815-55	181555
⇒Q210	8-729-663-47	2SC1364	⇒D301-304	8-719-815-55	1S1555
→ Q211	8-729-612-77	2SA1027R	⇒D305	8-719-422-21	1T22AM
- Q211	0-127-012-11	ZGRIUZ/K	⇒D306-312		1T22AM
Q301	8-724-375-01	2SC403C	⇒D313	8-719-815-55	181555

NAME

The mark # indicates the parts which is changed after serial No. 15,001.

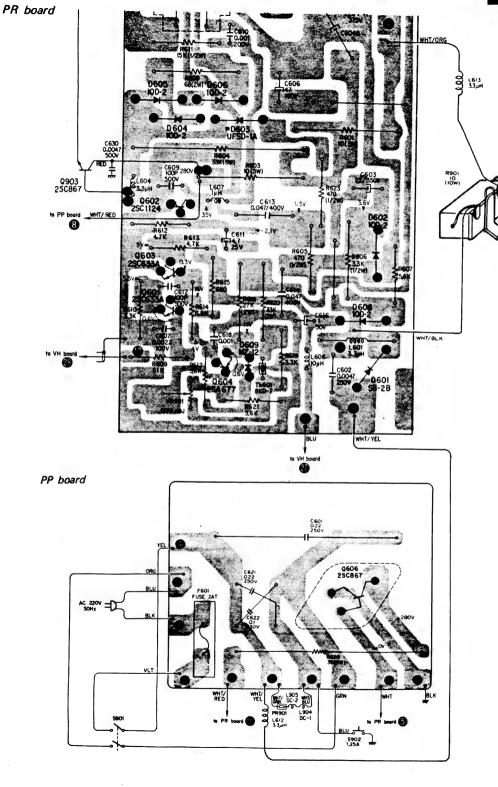
Def No	Dunt Ma	Description	Ref. No.	Part No.	Description
Ref. No.	Part No.	Description	Kej. No.	16/1/10.	Description
⇒D314-318	8-719-422-21	1T22AM		MISCEL	LANEOUS
⇒D319	8-719-815-55	1S1555		1 000 071 00	Thermister TU-250
			Th201	1-800-071-00	Thermistor, TH-350 Thermistor, TH-200
⇒D320-323	8-719-422-21	1T22AM	Th202	1-800-059-00	Thermistor, TH-15000
⇒D324-327	8-719-815-55	181555	Th502	1-800-069-00	Thermistor, 8KD-7
⇒D328	8-719-422-21	1T22AM	Th601	1-800-081-00	I nermistor, okb-/
⇒D501, 502	8-719-422-21	1T22AM	SD 501 001	1 900 033 00	Varistor, TD-80
→ D503	8-719-305-15	GH3F	PR901	1-800-032-00 1-800-080-00	Thermistor (positive)
⇒D504	8-719-305-15	GH3F	11001	1 000 000 00	
	8-719-303-13	1T22AM			COIL
⇒D505, 506 ⇒D507	8-719-305-15	GH3F	All coile	are microinducto	ors unless otherwise noted.
→D507 →D508	8-719-305-15	GH3F	All colls	are micromatere	ora dinosa otnorwise notes.
⇒D508 ⇒D510	8-719-303-13	1T22AM	L151, 152	1-407-165-00	47µH
₩ 10310	0-713-22-21	11227314	L153	1-407-167-00	68µH
⇒D511, 512	8-719-815-55	181555	L154	1-409-193-00	Coil, wave trap; 4.43MH
⇒D511,512	8-719-305-15	GH3F	L155-157	1-407-158-00	12#H
D601	8-719-302-22	SB-2B	L158	1-407-167-00	68#H
⇒D602	8-719-200-02	10E2			
⇒D603	8-719-333-10	UF1C	L201	1-409-214-00	VIFT-T1 40.4MHz
			L202	1-409-215-00	VIFT-T3 31.9MHz
⇒D604-606	8-719-200-02	10E2	L203-206	1-407-184-00	3.3#H
⇒D607	8-719-301-51	S-15H	L207	1-425-504-00	RF Choke
⇒D608	8-719-200-00	10E2	L208	1-407-190-00	10#H
⇒D609	8-719-930-12	EQB01-12Z			
D613	8-719-200-50	SK-1W50	L209	1-407-171-00	150µH
			L210, 211	1-407-158-00	12µH
⇒ D751-758	8-719-422-21	1T22AM (SCC-22A-A/B only)	L212	1-407-168-00	82µH
⇒ D801	8-719-305-15	GH3F	L213	1-407-186-00	4.7µH
D802	8-719-302-22	SB-2B	L214	1-407-557-00	680µH
⇒D803	8-719-200-02	10E2			
			L291	1-407-166-00	56µH
DC801	1-453-028-21	Selenium Rectifier Block Ass'y	L301	1-425-671-00	DAC
	including		L302	1-407-186-00	4.7μH
	1-222-509-	00 500kΩ-B, adjustable; VR801	L303	1-407-189-00	8.2µH
		(High Voltage)	L304	1-407-557-00	680µH
	1-206-915-	00 High Voltage Resistor, R802	L305	1-407-177-00	470µH
			L306	1-407-204-21	6.8mH
		ICs	L307	1-407-166-00	56µH
		*******	L308	1-407-159-00	15µH
→ IC201	8-759-311-25	HA1125	L309	1-407-166-00	56μH
IC202	8-759-651-34	M-5134P	2307	1-107-100-00	
			L310-312	1-407-177-00	470µH
			L313	1-407-164-00	39µH
			L314, 315	1-407-595-00	6.8mH
			L320, 321	1-407-186-00	5.6µH
			L322	1-407-188-00	6.8µH

^{⇒:} Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

D 4 W	n	B 4.4	D ()	D 4 M	D													
Ref. No.	Part No.	Description	Ref. No.	Part No.	Descrip	rion		Ref. No.	Part No.	Descrip	tion		Ref. No.	Part No.	Descri	ption		
L501	1-407-552-00	1.5mH	T306	1-403-846-21	BPT-3			★ C622	1-129-739-00	0.1	630V	film	R608	1-206-483-00	68	2W	metal oxide	
L502	1-459-075-00	3.3mH, dynamic convergence	T307	1-425-618-21	COT-2			* C623	1-108-745-21	0.22	250V	mylar	R616	1-206-741-00	4.7	3W	metal oxide	
L503	1-459-074-00	6.8mH, horizontal centering	T308	1-403-846-21	BPT-4			C630	1-102-085-00	0.0047	500V		R618	1-206-698-00	27k	2W	metal oxide	
L504	1-407-346-00	200µH Choke, spook											R620	1-206-700-00	33k	2W	metal oxide	
L505	1-407-553-00	82µH Choke, spook	T501	1-437-030-00	HDT			C701	1-119-327-00	0.47	500V	elect	R622	1-211-931-00	68	1/8W	carbon	
		•	T502	1-439-097-00	HOT			C702	1-102-050-00	0.01	500V	•						
L506	1-407-193-21	680µH	T503	1-435-008-00	VBT			C801	1-129-864-00	16,000p	1000V	film	R628	1-207-942-00	39	7W	wire wound	
L507	1-407-364-00	3.3µH Choke	★ T601	1-421-302-21	LFT			C802	1-129-859-00	7500p	1500V	film	R701, 702	1-202-581-00	2.2k	 ₩	composition	
L508, 509	1-407-190-00	10µH	* T602	1-437-032-00	CCH	-		C804	1-102-155-00	330p	2kV		R703	1-202-627-00	220k	1/2W	composition	
L515	1-407-364-00	3.3µH											R704	1-202-800-00	100k	⅓W	composition	
L601-605	1-407-364-00	3.3µH	T603	1-437-033-00	CDT			C805	1-102-219-00	680p	1kV		R705	1-202-635-00	390k	½ ₩	composition	
			T604	1-441-855-00	HIT			C806	1-102-038-00	0.001	500V							
L606	1-407-190-00	10μH	★ T751	1-425-618-00	COT-3			C808, 809	1-102-038-00	0.001	500V		R706	1-202-581-00	2.2k	⅓W	composition	
L607	1-407-178-00	1μΗ	T901	1-427-307-00	SOT			C810	1-102-153-00	100p	2kV		R707	1-202-603-00	18k	14W	composition	
L610, 611	1-407-364-00	3.3µH						C901	1-105-793-09	0.01	400V	mylar	R708	1-202-808-00	470k	1 W	composition	
L801-805	1-407-364-00	3.3µH		CAP	ACITORS													
L904, 905	1-425-674-00	Degauss (DC-1, 2)							RES	ISTORS				1-206-918-00	2.7	3W	metal film	
				rs are in µF and							_		*R803	1-206-921-00	4.7	3W	metal film	
L906	1-452-039-21	Beam Alignment Magnet	50WV or les	s are not indicate	ed except f	or electro	lytics.					esistors are omitted.		1-206-922-00	5.6	3W	metal film	
			p : μμF, elec	ct : electrolytic					list on the last p	-	•			1-206-925-00	10	3W	metal film	
DL151	1-415-047-00	Delay Line							and adjustable re			•	*R804	1-206-927-00	15	3W	metal film	
DL301	1-415-046-00	Delay Line	C101-104	1-102-238-00	47p			unless other	wise noted. kΩ:	: 1000Ω, M	ι Ω : 1000	lkΩ		1-206-928-00	18	3W	metal film	
			C105-108	1-102-239-00	470p			D.100		4.01	4397			1-206-929-00	22	3 W	metal film	
≄ L751	1-407-164-00	39µH (SCC-22A-A/B)	C111	1-121-257-00	5	15 V	elect	.R170	1-206-104-00	10k	1W 1W	metal oxide	2005					
			C259	1-102-043-00	-	500V	feed throug.	R174	1-206-104-00	10k		metal oxide	R805	1-202-788-00	10k	3W	composition	
	TRANS	FORMERS	C513	1-121-246-00	4.7	160V	elect	R178 R260	1-206-104-00 1-217-027-00	10k	1W 3W	metal oxide	R806	1-217-007-00	10	10W	cement coated	
								R261		33 47	3W	cement coated	R901	1-205-483-00	10	10W	cement coated	
T201	1-403-728-00	VIFT-1	C514	1-102-038-00	0.001	500V		R201	1-217-027-00	47	3₩	cement coated	VR151	1-222-515-00	220 -4	ustable; B.	DRIVE	
T202	1-409-217-00	VIFT-T2 33.4MHz	C517	1-102-219-00	680p	1 k V 200 V	mylar	R508	1-206-017-00	1.8k	2W	metal oxide	VR151	1-222-313-00		stable; B.		
T203	1-403-729-00	VIFT-2	C519	1-108-549-11	0.68 10	160V	elect	R519	1-211-451-00	1.0k	1/8W	carbon	VR153	1-222-515-00		ustable; R		
T204	1-403-841-00	VIFT-3	C520	1-121-921-00	47	160V	elect ··	R523	1-202-792-00	22k	1/011	composition	VR154	1-222-344-00		stable; R.		
T205	1-403-729-00	VIFT-4	C522	1-121-919-00 1-101-810-00	100p	500V	CICCI	R524	1-207-903-00	10		fuse	VR155	1-222-515-00		ustable; G		
			C525	1-101-810-00	тоор	300 4		R527	1-206-109-00	27k	1W	metal oxide	VKISS	1-222-515-00	330, auj	ustable, G	DRIVE	
T206	1-409-218-00	VIFT-T4 33.4MHz	C541	1-102-002-00	680p	500V		1021	1-200-107-00	212		motar oxido	VR156	1-222-344-00	Sk adin	stable; G.	RKG	
T207	1-403-730-00	VIFT-5	C541	1-101-810-00	100p	500V		R529	1-207-241-00	5		fuse	VR201	1-222-516-00		ustable; A		
T208	1-409-235-00	Coil, wave trap; 5.5MHz	C601	1-115-101-21	0.1	450V	oil	R530		2.7		fuse	VR202	1-222-516-00		ustable; T		
T209	1-403-842-00	SIFT-1	C602	1-102-240-00	0.0047	250V		R549	1-207-471-00	4.7	₩	wire wound	VR203	1-222-517-00		stable; IF		
T210	1-403-843-00	SIFT-3	C602	1-102-240-00	22	350V	elect	R552	1-202-794-00	33k	/211	composition	VR204	1-222-518-00			HF RF AGC	
			C003	1-123-022-00		330 .		R566	1-211-932-00	27	1/8W				,	,		
T211	1-403-810-00	AFT T3	C604	1-125-080-00	220	375V	elect			-:	2,0		VR301	1-222-515-00	330. adi	ustable; Di	L GAIN	
T212	1-403-811-00	AFT T4	C606	1-121-919-00	47	160V	elect `	R573	1-206-080-00	82	íW	metal oxide	VR302	1-222-517-00		stable; AC		
T301	1-403-844-21	TOT	C608	1-121-189-00	1	160V	elect	R574	1-206-688-00	10k	2W	metal oxide	VR303	1-222-518-00		stable; CO		
T302	1-403-845-21	BPT-1	C609·	1-108-810-00	100p	500V		R601	1-207-657-00	10	3W	wire wound	VR304	1-222-517-00		stable; AG		
T303	1-425-506-21	BPT-2	C613, 614	1-105-801-13	0.047	400V	mylar	R603	1-207-657-00	10	3W	wire wound	VR305	1-222-517-00		stable; AG		
T204	1-405-372-21	BAT	30.0,017				•	R604	1-206-823-00	33k	5W	metal oxide						
T304 T305	1-405-372-21	COT-1	C617	1-101-810-00	100p	500V							VR306	1-222-786-00	22k, adj	ustable; ID	SETTING	
1303	1-443-010-21	Ç 01 -1	≉ C621	1-129-739-00	0.1	630V	film (SCC-22A-C)											
			•															

Ref. No.	Part No.	Description
VR501	1-222-725-00	20k, adjustable; H. FREQ
VR502	1-223-017-00	50k, adjustable; TILT
VR503	1-223-017-00	50k, adjustable; H. CENT
VR504	1-222-725-00	20k, adjustable; PIN
VR505	1-222-344-00	5k, adjustable; H. SIZE
VR506	1-222-512-00	10k, adjustable; V. SIZE
VR507	1-222-512-00	10k, adjustable; V. LIN
VR508	1-222-784-00	3.3k, adjustable; V. BIAS
VR601	1-222-517-00	1k, adjustable; 110V
VR602	1-222-518-00	4.7k, adjustable; PP
VR701	1-222-809-00	500k, adjustable; SCRN
VR801	1-222-509-00	500k, adjustable; H. STAT
VR901	1-222-383-00	1k, variable; CONTRAST
VR902	1-222-388-00	20k, variable; VER
VR903	1-222-624-00	50k-D, variable; VOL
VR904	1-222-388-00	20k, variable; BRT
VR905	1-222-387-00	3k-U, variable; COLOR TONE
VR906	1-222-386-00	500, variable; COLOR
	MISCEL	LANEOUS
DY	1-451-676-11	Deflection Yoke
DY F601	1-451-676-11 1-532-203-00	Deflection Yoke Fuse, 2A
F601	1-532-203-00	Fuse, 2A
F601 F602 S902	1-532-203-00 1-532-078-00	Fuse, 2A Fuse, 1A
F601 F602 S902	1-532-203-00 1-532-078-00 1-515-119-00	Fuse, 2A Fuse, 1A Switch, circuit breaker
F601 F602 S902	1-532-203-00 1-532-078-00 1-515-119-00	Fuse, 2A Fuse, 1A Switch, circuit breaker
F601 F602 S902 SG701-705	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF
F601 F602 S902 SG701-705 NE901	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer
F601 F602 S902 SG701-705 NE901 NE902	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-519-060-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-519-060-00 1-141-138-00 1-527-183-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia.
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia.
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00 1-452-054-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence Magnet, rubber ferrite ring
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00 1-452-054-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence Magnet, rubber ferrite ring
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00 1-452-054-00 1-452-058-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence Magnet, rubber ferrite ring Magnet, horizontal convergence
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-038-00 1-452-058-00 1-502-299-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, vertical convergence Magnet, rubber ferrite ring Magnet, horizontal convergence Speaker
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-032-00 1-452-058-00 1-502-299-00 1-506-187-62	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, rubber ferrite ring Magnet, horizontal convergence Speaker Lead, with plug
F601 F602 S902 SG701-705 NE901 NE902 VC201	1-532-203-00 1-532-078-00 1-515-119-00 1-519-063-00 1-519-060-00 1-141-138-00 1-527-183-00 1-452-014-00 1-452-038-00 1-452-058-00 1-502-299-00 1-506-187-62 1-514-897-00	Fuse, 2A Fuse, 1A Switch, circuit breaker Spark Gap 1.5kV Neon Lamp, POWER Neon Lamp, UHF 1 - 5pF, trimmer Crystal Magnet, small disk; 15mm dia. Magnet, small disk; 10mm dia. Magnet, rubber ferrite ring Magnet, rubber ferrite ring Magnet, horizontal convergence Speaker Lead, with plug Switch, pushbutton; AFT

Ref. No.	Part No.	Description
	1-526-131-52	Cap, convergence
	1-526-144-00	Cap, lead
	1-533-087-00	Holder, fuse
	1-534-587-00	Card, power supply
	1-534-630-22	Cable, p-p
	1-536-296-00	Lug, terminal
	1-536-327-00	Lug 1L1, terminal
	1-543-040-00	Core
	8-735 -260 -05 301	Picture Tube, 330AB22



KV-1300E

- Serial No. 24,701 and later -

SUPPLEMENT

No. 2 May 1972

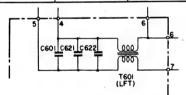
This supplement updates the service manual to include production changes starting with chassis number SCC-22A-A. File this supplement with the service manual,

- Subject: 1. Production Change of PP circuit board
 - 2. ANT circuit board for West Germany model
 - 3. Change of deflection yoke
 - 4. Cabinet for West Germany model

1. PRODUCTION CHANGE OF PP CIRCUIT BOARD

1-1. Netherlands, Sweden, Denmark and Finland Models

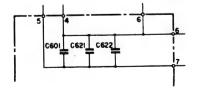
Ref. No.	~15,000	15,001~19,000	19,001~21,000	21,001~24,700	24,701 and later
T601(LFT) C601 C621 C622	0.1 µF/450V	0.1 µF/450V 0.1 µF/630V 0.1 µF/630V	0.1 μF/450V 	0.22µF/250V ———	0.22µF/250V



- 1. The mark O in this list indicates that the com-
- 2. After serial number 24,701, two micro inductors are added. See diagrams on page 2 and 3.

1-2. Switzerland Model

Ref. No.	15,001~19,000	19,001~21,000	21,001~24,700	24,701 and later
T601(LFT) C601 C621	0.1µF/450V 0.1µF/630V 0.1µF/630V		0.22µF/250V 0.1µF/630V	0.22µF/250V 0.1µF/630V

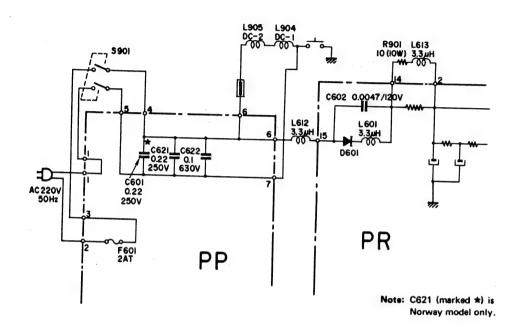


- number 19,001 and 21,000.
- 3. After serial number 24,701, two micro inductors are added. See diagrams on page 2 and 3.

West Germany Model

The set for West Germany has serial number 24,701 and later. See diagrams.

Partial Schematic Diagram — Serial No. 24,701 and later —



C601	1-108-745-21	0.22	±20%	250WV	mylar
★ C621	1-108-745-21			250WV	mylar
C622	1-129-739-00			630WV	film
L612	1-407-364-21			ro inducto	
L613	1-407-364-21			ro inducto	

Norway

Ref. No.	15,001~19,000	19,001~21,000	21,001~24,700	24,701 and later
T601(LFT) C601 C621 C622	Ο 0.22μF/250V 0.1μF/630V 0.22μF/250V		Ο 0.22μF/250V 0.22μF/250V	0.22μF/250V 0.22μF/250V 0.1μF/630V

Note:

 There is no Norway model between serial number 19,001 and 21,000.

Note: C621 is Norway model only.

- The mark O in this list indicates that the component is used and the mark — not used.
- After serial number 24,701, two micro inductors are added. See diagrams on page 2 and 3.

ANT CIRCUIT BOARD FOR WEST GERMANY MODEL

ANT circuit board for West Germany model is the same with Norway model. T102 is added on the circuit board. See page 32 of Service Manual KV-1300E (Chassis No. SCC-22A-C, Serial No. 15,001 and later).

Parts	West Germany, Norway	Other Countries
ANT circuit board, complete	1-536-358-00	8-983-142-15
T102	1-417-040-00	omitted

CHANGE OF DEFLECTION YOKE

Deflection yoke is changed after serial number 19,001. Former deflection yoke can be replaced by the new type.

Former	New
1-451-076-11	1-451-091-00

CABINET FOR WEST GERMANY MODEL

In West Germany model, a new cabinet is used.

Parts	West Germany	Other Countries
Cabinet Ass'y	X-43065-10-0	X-43065-02-0
Rear Cover Ass'y	X-43065-09-0	X-43065-08-2

Ref. No.	Former Part Value	New Part No./ Part Value	Applicable Serial No./ Associated Circuit Board				
C559	0.01 μF/50 V						
C570		1-105-741-12 0.001μF±10% 200V mylar	19,001∼ , VH board				
*R370	270 ohm	***************************************					
R384	39k ohm	1-244-709-11 33k ohm	19,001∼ , C board				
R527		1-244-701-11 15k ohm	23,501 ~62,100, VH board				
°R527	27k ohm	1-206-111-11 39k ohm 1W metal oxide	62,101∼ , VH board				
°R575	15k ohm	***************************************					
R903		1-244-643-11 56 ohm	39,001 ~ , speaker circuit				

Note: All resistance values are in 5% ¼W carbon type unless otherwise indicated.

The parts marked * or ° should be replaced altogether should replacement of any one of them be required.

KV-1300E

AEP Model

No. 3 March, 1973

SUPPLEMENT

Subject: Electrical and Mechanical Changes

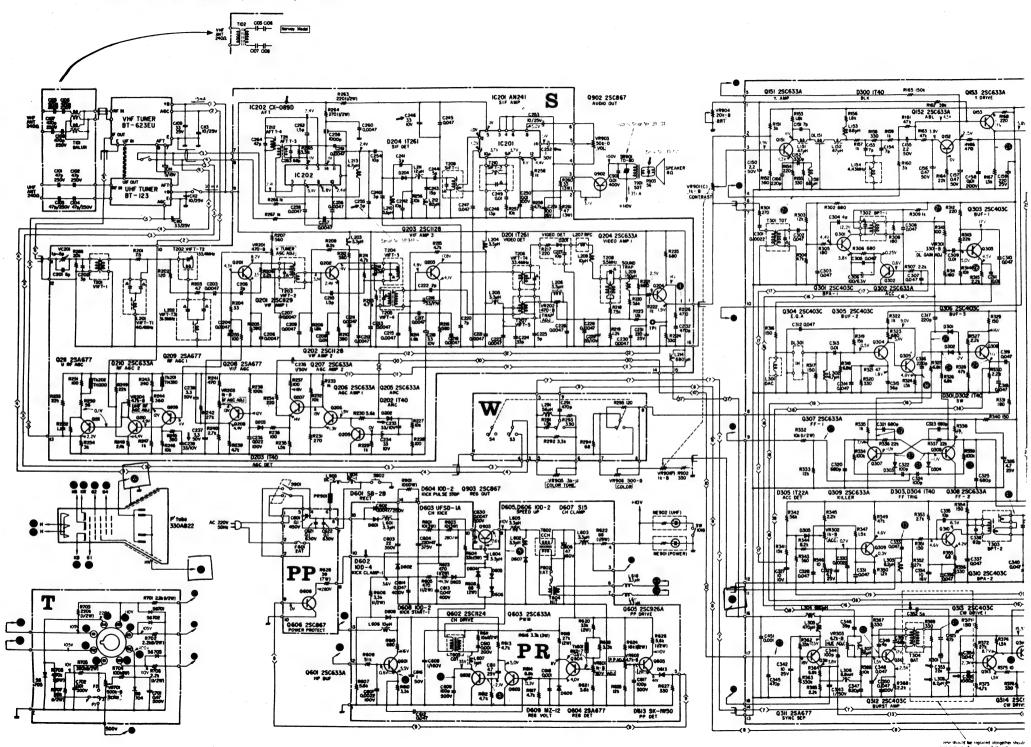
This supplement updates the service manual to include production changes on circuit and mechanical parts.

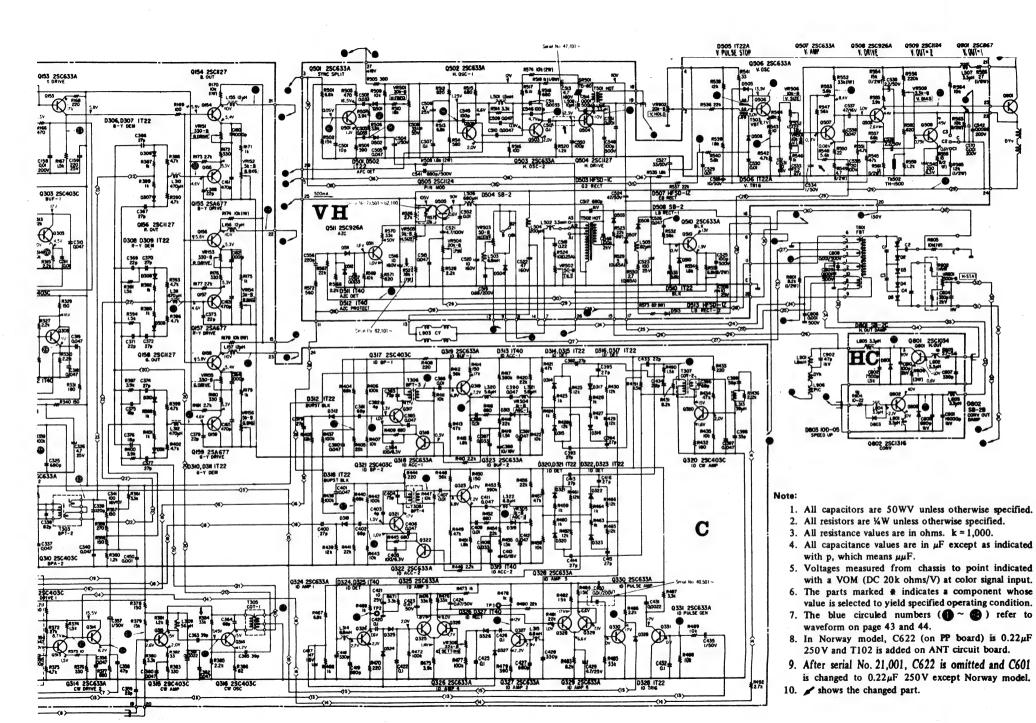
File this supplement with the service manual.

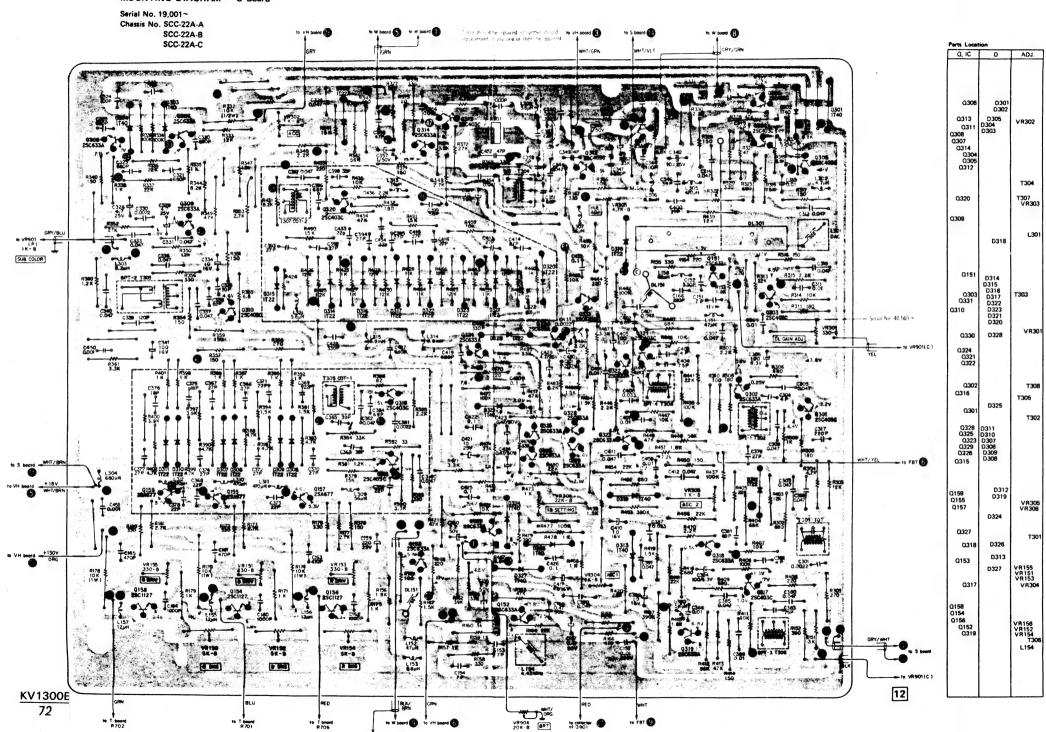
1. CHANGED PARTS LIST

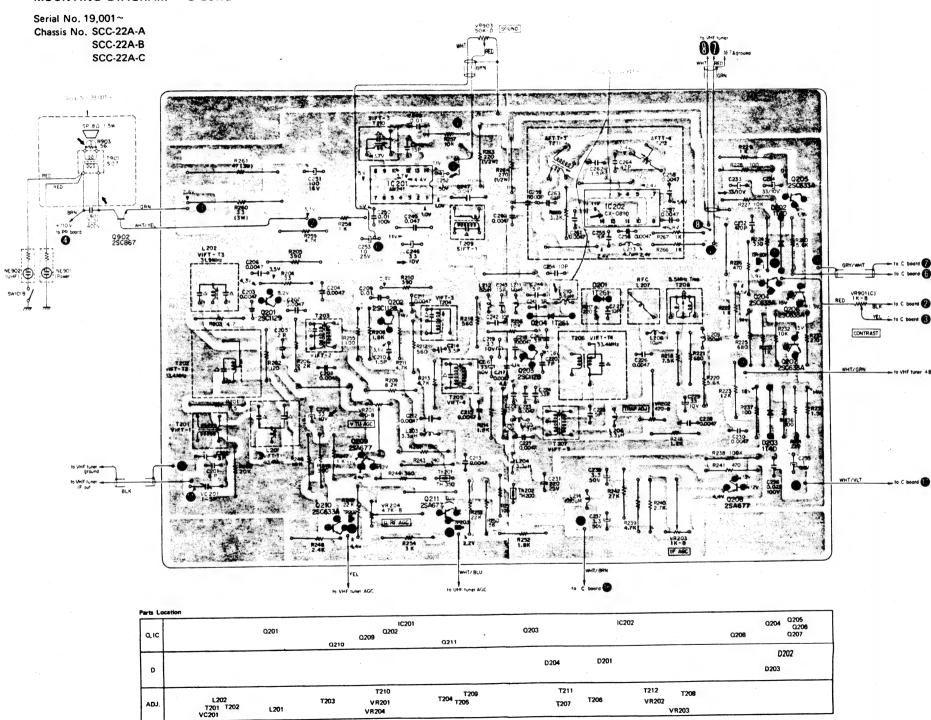
Ref. No.	Former Part Value	New Part No./ Part Value	Applicable Serial No./ Associated Circuit Board				
IC202	M5134P	CX-089D	58,941 ~ , S board				
D602	10D-2	10D-4	19,001 ~ , PR board				
SR901	TD80	**************	39,000∼ , Speaker ci	rcuit			
L210	12μΗ	1-407-187-00 5.6µH	58,941~ , S board				
L509	10μΗ		47,701 ~ , VH board				
*L308	15μΗ	1-407-189-00 8.2μH	19,001 ~ , C board				
C233 C239 C246	33μF/16V	1-121-402-11 33μF ±18% 10V electrolytic	unknown S board	-			
C252	10μF/25 V	1-121-391-11 1μF ±75% 50V electrolytic	19,001~ , S board				
*C352	4pF	1-102-942-11 5pF ±0.5pF 50V ceramic					
*C353	12pF	1-102-959-11 22pF ±5% 50V ceramic	19,001~ , C board				
*C355	120pF	1-101-455-11 1000pF ±20% 50V ceramic					
C430	0.47 μF/50 V electrolytic	1-106-753-12 0.01 µF ±10% 200V mylar	40,501~ , C board				
*C452		1-101-880-11 47 pF ±5% 50V ceramic	19,001 ~ , C board				



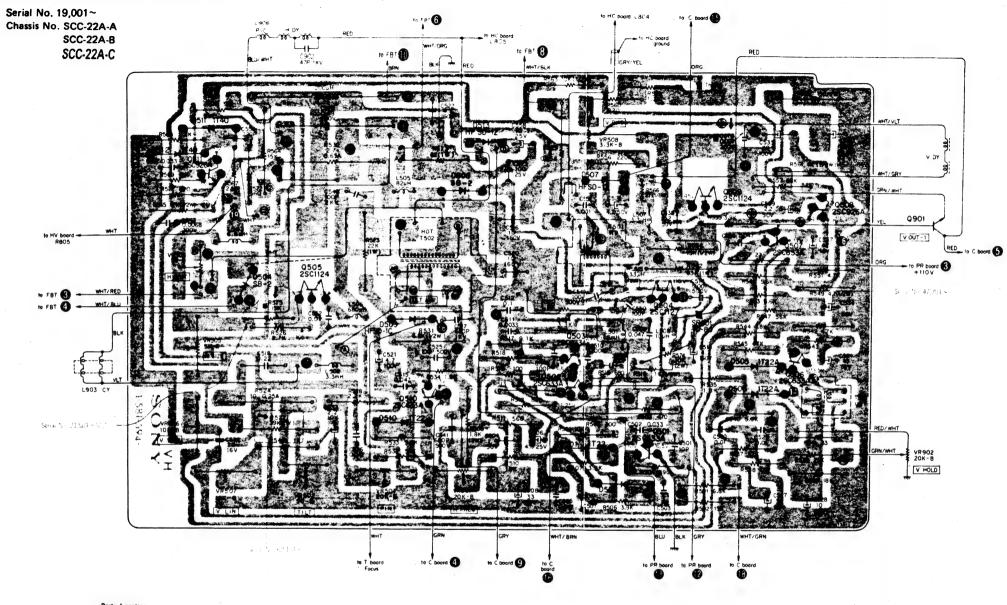




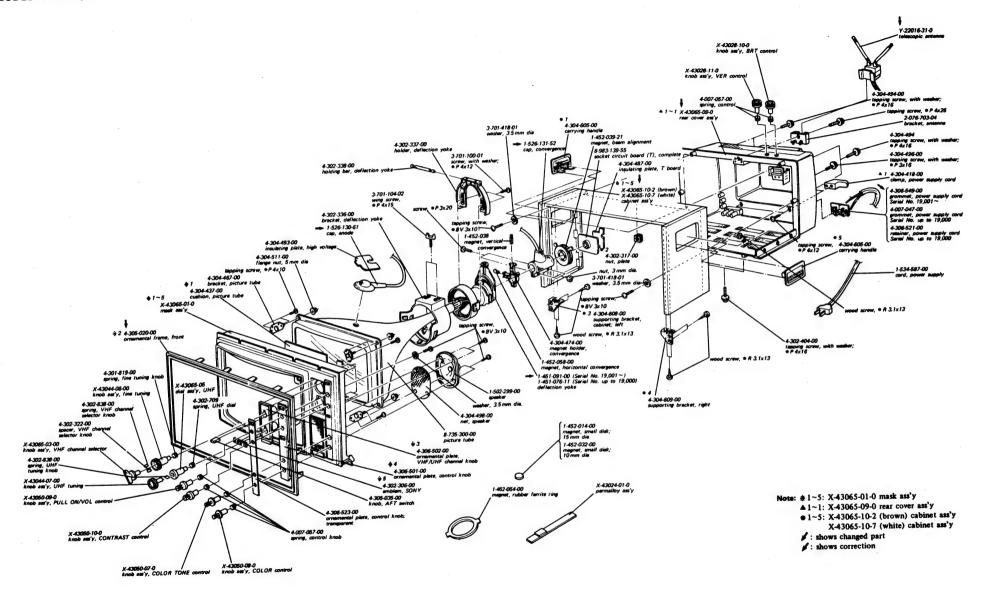




MOUNTING DIAGRAM - VH Board -



Parts Lo	cation							
a	Q511	Q505	Q510		Q503 Q502	Q504 Q501	Q509	Q507, Q508 Q506
D	D512 D511 D504		D503 D510	D508 D513	D507	0502		D505 D506
ADJ.	∨R503 VR505 VR506 ∨R507	VR502	VR504	VR501	VR508		Principal de la Maria	



T	RI	NI	TR	ON®	
C	01	_0	UR	TV	

KV-1300E

West Germany Model

SUPPLEMENT

No. 4 April 1973

Subject: Electrical and Mechanical Changes

This supplement updates the service manual to include production changes covering Serial No. 69,249 ~ 71,249.

File this supplement with the service manual.

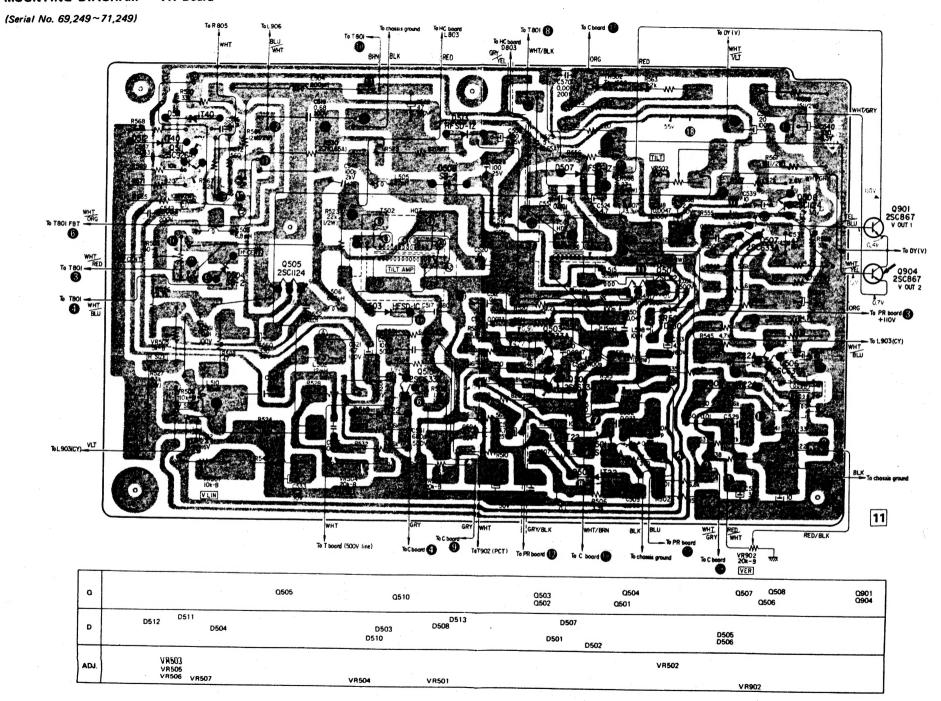
1. INTRODUCTION

The VH circuit board and deflection yoke have been changed in addition to some other electrical and mechanical changes.

2. CHANGED PARTS LIST

(Serial No. 69,249 ~ 71,249)

Ref. No.	Former Part Value	New Part No./Part Value						
VH board	8-983-139-35	8-983-781-15						
Q904		2SC867						
L907		1-451-096-00 coil, phase adjustment; PAC						
T902		1-421-301-00 transformer, pincushion; PCT						
C921		1-108-632-11 0.33µF ±10% 100V mylar						
R921	***************************************	1-244-673-11 1kΩ ±5% ¼W carbon						
R922		1-244-673-11 lkΩ ±5% ¼W carbon						
R923		1-244-703-11 18kΩ ±5% ¼W carbon						
DY	1-451-076-11	1-451-096-00 deflection yoke						

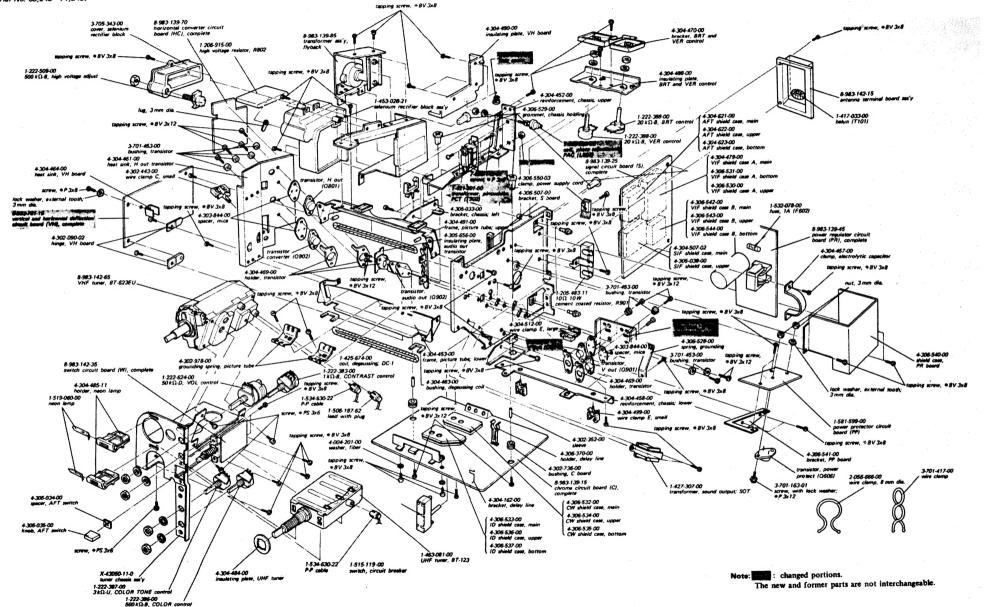


Note: 1. The parts marked a are mounted on the conductor side.

2. shows the changed portion.

EXPLODED VIEW (2)

(Serial No. 69,249~71,249)



NEW VH BOARD PARTS LIST

			•							Ref. No.	Part No.		Description	_	Ref. No.	Part No.	Desc	ription
Ref. No.	Part No.		Description	Ref. No.	Part No.		Descri	ption										
										C548	1-102-153-11	100p	±20% 2k	v	R533	1-244-691-11	5.6k	
	SEMICOR	IDUCTORS		1	CAPA	CITORS				C549	1-101-810-11	100 p	±5% 500	v	R534	1-244-679-11	1.8k	
			200		All the capacitors	are in "F	SOV and	cerami	•	C550	1-102-973-11	100p	±5%		R535	1-244-679-11	1.8k	
Q501		transistor	2SC633A		unless otherwise n	-		Cotania		C551	1-102-074-11	0.001	±10%		R536	1-244-705-11	22k	
Q502		transistor	2SC633A							C552	1-101-004-11	0.01	±100%		R537	1-244-705-11	22k	
Q503		transistor	2SC633A	C501	1-102-947-11	-	±5%		-	C553					R538	1-244-699-11	12k	
Q504		transistor	2SC1127	C502	1-108-632-11	0.033	±10%			C554					R539	1-244-703-11	18k	
Q505		transistor	2SC1124	C503	1-108-632-11	0.033	±10%	100 V	mylar	C555		••••			R540	1-244-691-11	5.6k	
Q506		transistor	2SC633A	C504		1	±150%	50V	electrolytic	C556	1-102-978-11	220 p	±5%		R541	1-244-637-11	33	
Q507		transistor	2SC633A	C505	1-108-634-11		±10% ±150%	100 V	mylar	C557 C558	1-108-632-11	0.033	±10% 100 ±10% 25	V mylar	R542	1-244-689-11 1-244-625-11	4.7k 10	
Q508		transistor	2SC1124	C506		4.7		25 V 100 V	electrolytic	C559	1-121-398-11 1-101-004-11	10 0.01	±100%	V electrolytic	R543 R544	1-244-679-11	1.8k	
Q509		A	2SC633A	C507 C508	1-108-638-11		±10% ±100%	50V	mylar electrolytic	C560	1-101-004-11		**	V electrolytic	R545		47k	
Q510		transistor	2SC933A 2SC926A			33 0.047	± 10%	100 V	mylar	C561	1-105-713-12	0.01	±10% 100		R546	1-244-673-11	1k	
Q511		transistor	23C920A	C509	1-106-212-12	0.047	±5%	100 V	mylar	C562	1-108-704-11			V mylar	R547		56k	
D501		41.4.	1T22	C510 C511	1-106-188-12 1-106-18 4 -12	0.0047		100 V	mylar	C302	1-100-704-11	0.1	-10 % 200	· inytan	R548		5.6k	
D501 D502		diode diode	1T22 1T22	C511	1-108-638-11	0.0033	±10%	100 V	•						R549	1-207-471-11	4.7	1/2W wirewound
D502 D503		diode	HFSD-1C	C512	1-121-246-11		±10%		electrolytic		RES	ISTORS			R550	1-244-633-11	22	
D504		diode	SB-2	C514	1-102-038-11	0.001	±100%	500 V	crectiony tic						R551	1-244-689-11	4.7k	
D505		diode	1T22A	C515		0.22	•	100 V	mylar		All the resistors a			d carbon	R552	1-202-794-11	33k	1W composition
D506		diode	1T22A	C516	1-121-708-11	10	±100%	160V	•		unless otherwise r	ioted. k =	1,000 ohms.		R553	1-244-691-11	5.6k	•
D507		diode	HFSD-1Z	C517	1-102-219-11	680 p	±20%	1kV		R501	1-244-693-11	6.8k			R554	1-244-899-11	12k	½₩
D508		diode	SB-2	C518	1-106-212-12	0.047	±5%	100 V	mylar	R502	1-244-701-11	15 k			R555	1-244-673-11	1 k	
D509				C519	1-108-549-11	0.68	±10%	200 V	mylar	R503	1-244-665-11	470			R556	1-244-717-11	68k	
D510		diode	1T22	C520	1-121-921-11	10	±100%	160 V	electrolytic	R504	1-244-663-11	390			R557	1-244-719-11	82k	
D511		diode	1T40	C521	1-121-918-11	4.7	±100%	100 V	electrolytic	R505	1-244-660-11	300			R558			
D512		diode	1T40	C522	1-121-919-11	47	±100%	160 V		R506	1-244-687-11				R559			
D513		diode	HFSD-1Z	C523	1-121-416-11	100	±100%	25 V	electrolytic	R507	1-244-687-11				R560	1-244-657-11	220	
				C524	1-121-396-11	4.7	±150%	50 V	electrolytic	R508	1-206-017-11	1.8k	2	W metal oxide	R561	1-244-873-11	1 k	½₩
SR501	1-800-032-00	varistor	TD-80	C525	1-101-810-11	100 p	±5%	500 V		R509	1-244-697-11	10k			R562			
				C526	1-108-634-11	0.047	±10%	100 V	mylar	R510	1-244-703-11	18 k			R563	1-244-675-11	1.2k	
				C527	1-121-405-11	33	±100%	50 V	electrolytic	R511	1-244-667-11	560			R564	1-244-899-11	12k	⅓ W
				C528	1-121-738-11	10	±100%	50 V	electrolytic	R512	1-244-671-11	820			R565	1-244-897-11	10k	₩W
				C529	1-108-626-11	0.01	±10%	100 V	mylar	R513	1-244-693-11	6.8 k			R566	1-211-932-11	27	 ∕•₩
				C530	1-108-626-11	0.01	±10%	100 V	mylar	R514	1-244-685-11	3.3k			R567	1-244-705-11	22k	
				C531	1-131-158-11	10	±20%	16 V	electrolytic	R515	1-244-669-11	680			R568	1-244-681-11	2.2k	
	C	DILS		C532	1-121-479-11	22	±100%	16 V	electrolytic	R516	1-244-649-11	100			R569	1-244-697-11	10k	
				C533	1-127-024-11	2.2	±20%	10 V	electrolytic	R517	1-244-696-11	9.1 k			R570	1-244-709-11	33k	
L501	1-407-552-00	1.5 mH, m	icro inductor						(alox)	R518	1-244-669-11	680			R571	1-244-671-11	820	
L502	1-459-059-00	12 mH, dy	namic convergence	C534	1-121-391-11	1	±150%	50 V	electrolytic	R519	1-211-451-11	1 k	*	W	R572	1-244-667-11	560	
L503	1-459-074-00	6.8 mH, ho	orizontal centering	C535	1-121-917-11	20	±20%	100 V	electrolytic	R520	1-244-675-11	1.2k			R573	1-206-080-11	82	1W metal oxide
L504	1-407-346-00	200 μH, spe	ook choke	C536	1-101-006-11	0.047	±100%			R521					R574	1-206-688-11	10k	2W metal oxide
L505	1-407-553-00	82μH, line	choke	C537	1-121-409-11	47	±100%	16 V	electrolytic	R522					R575	1-244-675-11	1.2k	
L506	1-407-193-21	680µH, mi	icro inductor	C538	1-121-450-11	2.2	±150%	50 V	electrolytic	R523	1-202-792-11		1	W composition	R598	1-244-641-11	47	
L507	1-407-364-00	3.3 µH, spo	ook choke	C539	1-131-158-11	10	±20%	16 V	tantalum	R524	1-206-145-11	68	3	W metal oxide	R599	1-244-709-11	33k	½₩
L508	1-407-190-00	10µH, mic	TO inductor	C540	1-121-751-11	330	±100%	6.3 V	electrolytic	R525								
L509	1-407-190-00	10µH, mic	ro inductor	C541	1-102-002-11	680 p	±10%	500 V		R526	1-244-683-11				VR501	1-222-725-00		le (H FREQ control)
L510	1-459-059-00	12 mH, mi	cro inductor	C542	1-105-751-12-	0.0068	±10%	200 V	mylar	R527	1-206-110-11	33	1	W metal oxide	VR502	1-223-019-00		le (TILT control)
L515	1-407-364-00	3.3 µH, mic	cro inductor	C543						R528	1-244-681-11				VR503	1-223-017-00		(H CENT control)
				C544		•••••				R529	1-207-241-11			A fuse	VR504	1-222-725-00	20k-B, adjustab	
T501	1-437-030-00	transforme	r, horizontal drive; HDT	C545	1-102-973-11	100p	±5%			R530	1-207-982-11		0.65		VR505	1-222-344-00		(H SIZE control)
T502	1-439-134-00		r, horizontal output; HOT	C546	1-102-973-11	100 p	±5%			R531	1-244-893-11		₩	w	VR506	1-222-512-00	- •	le (V SIZE control)
T503	1-435-008-00	transforme	r, vertical blocking; VBT	C547						R532	1-244-715-11	56k			VR507	1-222-512-00	10k-B, adjustab	le (V LIN control)
																		10.140005